

# **The Ohio State University Agricultural Technical Institute**

**Annual Report of Accomplishments**



**1997**



## ABSTRACT/HIGHLIGHTS

### I. TEACHING

#### A. COURSES OFFERED

	<u>COURSES</u>	<u>ENROLLMENT</u>	<u>CREDIT HOURS</u>
Winter	128	2,926	10,184
Spring	126	2,232	7,702
Summer	53	545	2,006
Autumn	141	4,162	13,015

#### B. CURRICULUM INITIATIVES

There were several curriculum initiatives during 1997. Most significant among them were: The Associate of Science degree program completed its first full cycle with 6 graduates; a seventh major (pre-agr education) was added to the offerings; over 100 new students enrolled in the Autumn Quarter to pursue this degree; and discussions began with Bowling Green State University to consider articulation with the Construction program. The curriculum review activity involved all industry advisory committees as the faculty try to identify the important disciplinary concepts to be included in the curriculum. Linkages with other colleges continue to develop and expand as agreements with Wayne College and Ohio University-Lancaster were formalized and dialogue with Cuyahoga Community College and Lorain County Community College continues. Linkages with industry continued to be important as several companies or associations approached ATI about offering new technologies/majors or specializations within existing programs. The program for incarcerated men was modified to comply with the Ohio Department of Rehabilitation and Corrections funding and enrollment criteria.

#### C. OUTREACH ACTIVITY

Ohio State ATI's Continuing Education (CE) program continued to serve the community, state and nation through credit and non-credit workshops and seminars. These workshops/seminars range from the traditional classroom presentations to tele-conferences for wide ranging audiences from traditional agricultural groups to manufacturing companies and small businesses.

In 1997 the ATI Seaman Corporation partnership received the Governor's Workforce Excellence Award as a result of their workforce training initiative. This prestigious award recognizes leadership and innovative workforce development efforts.

Another highlight was the receipt of two awards for the Cleveland Advanced Manufacturing Program (CAMP), University of Akron-Wayne College, Ohio State ATI partnership. The first was a \$20,000 grant from the Ohio Board of Regents to develop the capacity to provide QS 9000 training. The second was \$100,000 from the Ohio Department of Development to enable small businesses in the automotive industry in Wayne and surrounding counties to take advantage of this QS 9000 training.

A special program was initiated with Case IH which will become a long-term partnership between Ohio State ATI, Case Corporation, and North American Case IH dealers to provide a program of



dealership employee development training using distance delivery methods. An initial activity was completed in August involving eleven representatives of Case IH dealerships from across North America. This kick-off was at ATI for a week-long training and needs assessment program involving 6 faculty who piloted a series of distance delivered modules for the courses to be in this program. Regular course instruction is set to begin in SU98.

Another partnership was initiated with New Holland for corporate training for service technicians and sales persons from dealership in Ohio and surrounding states to be conducted on the ATI campus.

Special workplace development programs for companies desiring to improve the basic skills of their employees continued to dominate the CE activities in 1997. These activities focused on major corporations (Seaman, Monsanto, Frito-Lay, and Rexroth), the Wayne County Small Business Consortium (with Wayne College and the Career Center), major associations (Ohio Nursery and Landscape Assn and Ohio Landscapers Assn), and major machinery manufacturers (Case and New Holland). Other companies involved include: Dover Hydraulics, FJ Designs, Wayne Dalton, AstroCosmos Metallurgical, Volvo, Rubbermaid, Smith Dairy, Orrco, CNC Metals.

In 1997, 25 regular and several special faculty members were involved with one or more activities including traditional extension presentations, workforce development classes, technical update for teachers, elderhostel, "school-to-work" workshops for teachers, young investigators for junior high students, and upward bound for high school students.

## **II. RESEARCH AND SCHOLARLY ACTIVITIES**

The research/scholarly activity at Ohio State ATI is applied to the agricultural and horticultural industries or to the teaching-learning process and is measured in numbers of publications and presentations.

### **A. PUBLICATIONS**

Twenty-one (21) faculty members produced 42 publications in 1997 including 3 monographs; 2 chapters in books; 10 bulletins or technical reports; 9 peer reviewed articles; 9 editor reviewed articles; 7 reviews or abstracts; and 2 papers in proceedings. One faculty member serves as editor of a professional journal and 5 members serve on editorial boards. Another 6 are reviewers for books or articles for journals.

### **B. PRESENTATIONS**

In 1997, 17 Ohio State ATI faculty made 29 presentations to professional and industry groups.

## **III. SERVICE**

The Ohio State ATI faculty have always been recognized for their service activities. In 1997, 28 faculty members provided professional service to their profession and/or community, including 13 serving professional associations, 7 serving trade organizations, 19 providing professionally related community service, and 9 serving on college committees. One person served on the Ohio State Academy of Teaching committee. Twenty-three (23) served as consultants in a



variety of ways from general public inquiries to making specific recommendations regarding business operations.

#### **IV. GRANTS AND CONTRACTS**

In FY97, Ohio State ATI received external funds to support 8 major projects ranging from special programs for junior high and high school students (Young Investigator's, Upward Bound and Tech Prep), to retaining currently enrolled students (Program EXCEL), to conducting a workplace development program with local industry (Productivity Improvement), to helping K-12 teachers utilize Total Quality Improvement techniques in their classrooms (School-to Work), assisting incarcerated men with skill development to reduce recidivism (Co-op Demonstration), and upgrading the computer laboratories at ATI (Microsoft courseware). Three faculty members received smaller grants to conduct specialized studies in their discipline.

#### **V. INTERNATIONAL ACTIVITIES**

Ohio State ATI had minimal activity in this area this year with only one visitor hosted and one visit to another country (Poland).

#### **VI. AWARDS AND HONORS**

Two programs and seven (7) faculty members received special local, college and national awards in 1997:

The Seaman-Ohio State ATI partnership received the Governor's Workforce Excellence Award for leadership and innovative workforce development activity.

The Greenhouse Production and Management Technology received a letter of commendation from the Professional Plant Growers Association for recognition as one of the top twelve programs in floriculture education in the US.

Wesley Greene received the ATI Distinguished Teaching Award for the second time in his career.

Bob McMahon received the College's Excellence in Teaching Award

David Willoughby received the Outstanding ATI Faculty Advisor Award and the College's Excellent Advisor Award.

Bob McMahon and Jean Opliger received National Institute for Staff and Organizational Development (NISOD) Excellence Awards.

Allen Zimmerman received the Everly Journal Award for the NACTA Journal.

Richard Dobec was recognized by Who's Who Among College Professors and Kent Hammond was recognized by Who's Who Among America's Teachers. Both of these people were nominated by former students.



## FACULTY BY RANK

### Professor

G. Anderson

### Associate Professor

R. Baur  
M. Borger  
R. Borton  
T. Bowman  
M. Fulton  
W. Greene  
K. Hammond  
M. Headings  
L. Houston  
G. Kreps  
P. Kroll

R. McMahon  
A. Mokma  
D. Munn  
S. Neal  
R. Niklas  
J. Opliger  
S. Rahnema  
S. Woods  
A. Zimmerman  
T. Zimmerman

### Associate Professor/Director Emeritus

D. Garrison

### Associate Professor Emeritus

C. Opliger  
J. Roberts  
C. Stock

### Assistant Professor

L. Anderson-Schramm  
K. Bennett-Wimbush  
K. Cochran  
R. Dobec  
G. Gordon  
T. Lanker  
J. Lucas

S. Lunsford  
E. Malinowski  
E. Miller  
R. Thornton  
D. Willoughby  
D. Voltz

### Assistant Professor Emeritus

F. Lendrum  
S. Stocker

### Instructor

J. Carr  
E. Copeland

F. Jennings  
R. Rupp



# AGRICULTURAL TECHNICAL INSTITUTE

## 1997 REPORT OF ACTIVITIES

### I. TEACHING

#### A. COURSES OFFERED

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#### B. CURRICULUM INITIATIVES

**Associate of Science** - In 1997, this program experienced the completion of the first full 2-year cycle. The final courses including Agricultural Communications 367 and 390, Biology 114, Music 141, and Rural Sociology 378 were taught for the first time. There were 6 graduates in Spring Quarter and several transferred to the Columbus campus during Autumn Quarter to complete a final course or two to meet the graduation requirements.

Enrollment in this program continues to grow with over 100 students selecting this degree option in AU97

This program was expanded in two ways: (1) A Pre-Agricultural Education major was developed and added to the choices for students. A few students immediately selected this major in AU97 with more expected in AU98 after recruiting efforts "broadcast" this availability. (2) Preliminary talks with Bowling Green State University were held to explore the possibility for articulation in the Construction program.

**Curriculum Review** - The faculty were heavily involved in reviewing the general education requirements for an Associate of Applied Science degree from ATI. Several industry advisory committees met during the Spring Quarter to review the important concepts that should be required. The Academic Affairs Committee spent Autumn Quarter reviewing the advisory committee reports and identifying these concepts which should be included in a core curriculum and required of all students.

In addition to reviewing the curricular concepts, program vitality is an on-going concern at ATI. In 1997 one program (Environmental Science) was approved by the University Council on Academic Affairs as a new specialization within the Laboratory Science Technology and the faculty voted to deactivate one program (Food Marketing). A third program (Fluid Power) was reviewed critically with the advisory committee strongly urging the development of a "one-year" certificate option in addition to the degree option.

**Linkage with Other Colleges** - Collaboration with other colleges and campuses within and surrounding Ohio is a high priority at ATI to reduce the proliferation of agriculture programs at the community and technical college level. Among the efforts in 1997 were:

**Ohio U-Lancaster:** The ATI faculty approved a course transfer plan in 1996 which is the basis for this linkage; however, no students have been enrolled as yet; this plan will be further enhanced with a collaborative 1+1 program proposal submitted to the Ohio Board of Regents for approval.



**Cuyahoga CC-East:** The ATI faculty have reviewed the CCC Plant Science curriculum and identified several courses which could transfer; however, this plan is "on-hold" until CCC completes the conversion to semesters.

**Lorain County CC:** The interest at LCCC is primarily in offering baccalaureate degree courses on their campus; a proposed listing of LCCC courses which could apply to ATI degrees was developed; discussions continue.

**Wayne College:** A "Statement of Collaborative Intent" was developed and signed by university level officials for both institutions; discussions are ongoing about a financial aid agreement so students can "co-enroll" on both campuses simultaneously; additional discussions are proceeding, with Stark State College of Technology included, about jointly offering courses in environmental science.

**Farm Labor:** This project involved Ohio State (Extension, as well as ATI), University of Toledo, Bowling Green State University, Indiana University at Indianapolis and Michigan State University in working with the Farm Labor Organizing Committee (FLOC) based in Toledo. The intent was to identify areas for collaborative college level programming for the migrant labor force. A proposal was developed and submitted to the Fund for Rural America to establish a Farm Labor Education Center. However, the director of FLOC, rejected the offer to work with a similar project proposal in California and later declared this consortium idea "dead."

**Linkage with Industry** - Industry continues to approach ATI for a variety of educational and training programs for prospective employees or upgrading their current employees. In addition to the outreach activities described in Section IC, there were two special initiatives in 1997:

**Mark II:** This corporation is interested in pre-employment preparation of pesticide and fertilizer applicators. There is national interest in this type of education on the part of the Agricultural Retailers Association which convened a meeting in August in Iowa to discuss this concern. Currently, plans call for ATI to develop an applicator specialization within the Crop Management and Service Technology.

**Alfa Laval Agri, Inc.:** This company is considering ATI as the location for an employee training center for the northeastern United States. Their primary interest was associate degree and certificate programs and training for current employees. A proposal was developed and submitted but was not selected as the initial site. However, ATI is still being considered as a second site.

**Prison Program** - This program was completely revised in 1997. The courses at Mansfield and the Grafton Correctional Camp were discontinued due to low enrollments. The State of Ohio enacted legislation to discontinue OIG funding for incarcerated students. Thirdly, the federally funded Cooperative Demonstration project came to an end. These three events worked together to change the curriculum and other policies. This involved meeting with the Ohio Penal Education Consortium including officials from the Ohio Department of Rehabilitation and Corrections, Officials of Ashland University and the officials of the Mansfield Correctional Institution, Grafton Correctional Camp and Grafton



Correctional Institution. The program, which historically has been offered in conjunction with Ashland University, now follows the same quarter schedule as Ohio State and awards a Certificate of Achievement upon completion.

In addition to teaching classes to prepare inmates for meaningful employment upon release, this program produces plant materials for use in the public parks of Lorain City and County. In 1997 nearly 1,500 flats of bedding plants and over 1,000 potted mums were produced for this purpose. To promote this activity within the County, a video was produced to communicate the involvement of the inmates. A second video was produced to communicate the community usage of these plant materials to the inmate/students who were/are involved in the production.

**Reading levels of incoming students** - Entering students with inefficient reading skills are required to take a reading course (Gen Comm T100). This policy was first implemented Autumn 1996 for entering students who scored 61 or lower on the Degrees of Reading Power (DRP) test (The cut-off score, 61 DRP units, denotes a tenth-grade reading level.). The course focuses on college-level textbook comprehension, vocabulary development, critical reading and metacognition. About 100 (25% of those entering) students were required to complete this course in AU97.

**Student Centered Learning** - Three faculty have participated in this College Project Reinvent activity.

**Jim Carr** developed a World Wide Web Site for the Construction Technology curriculum with links to several courses. One course (Building Construction I - ENG TEC T256) has the syllabus, outlines for all lecture presentations and a link to pages for each assignment. The students can complete the assignment online and submit it electronically to the instructor. Additionally, he developed two tutorials which include self-scoring quizzes.

**Linda Houston** revised a course (Gen Comm T114 - Business Communications) with the help of the students. The syllabus and all assignments are established after students enrolled in that quarter consult with an industry person to determine the kinds of communication projects currently being completed at that business.

**George Kreps** is preparing a book on total quality management for the Sociology of TQM (Gen S Sci T164) course.

**Study Tour** - R. Thornton conducted a study tour for the dairy students and industry representatives to the Western Dairy Management Conference and California Dairy Industry, March 12-19. The study tour was designed to give participants exposure to the western U.S. dairy industry. Fifteen ATI students participated in the tour with 9 completing credit requirements. The tour consisted of listening to scientific presentations at the Western Dairy Management Conference; visiting six dairy farms, a processing plant, Modesto Junior College's associate degree dairy program; meeting with an extension advisor, a nutritionist, and a dairy accountant; and sightseeing at Hoover Dam and Yosemite National Park.



### C. OUTREACH ACTIVITY

ATI continued to experience significant outreach activity in 1997 in response to interest on the part of other organizations to have better educated people as employees or upgrading the employees they currently have. The highlight of the year was receipt of the Governor's Workforce Excellence Award for the ATI-Seaman training effort.

#### 1. Extension

The ATI faculty who made extension type presentations in 1997 include:

Gary Anderson - "Extending Color Throughout the Landscape," OSUE Plant Lovers School, Akron, February 18

Gary Anderson - "Enhancing the Landscape with Annuals, Perennials and Bulbs," OSUE Master Gardeners Program, Lima, March 12

Gary Anderson - "Enhancing the Landscape with Annuals, Perennials and Bulbs," OSUE Master Gardeners Program, Ottawa, March 13

Gary Anderson - "Care of Roses," OSUE Master Gardeners Program, Wooster, May 7

Gary Anderson - Floral Demonstration, "Flowers with Style," Wayne County Fair, Wooster, September 8

Gary Anderson and Terry Lanker - Holiday Floral Design Workshop, Wooster, November 19

Tom Bowman - A course on using the internet to access information; Young Farmers Group, Cloverleaf High School, April 7

Ken Cochran - Northeast District Master Gardeners' Spring Retreat, Wooster, May 7

Ken Cochran - Northeast District Pruning and Propagation Workshop, Wooster, March 4,

Ken Cochran - Propagation Workshop, Portage Co. Master Gardeners, June 3

Ken Cochran - BYGLive, Richland County and Wooster

Ken Cochran - Plant Identification, ENLTT, Wooster, May 19-20

Ken Cochran and Charles Behnke - Conifer School, Wooster, July 8-9

Mark Headings - "What Are My Bees Doing in My Hives Now (Winter)?" Tri-County Beekeepers Association, ATI, February 26

Mark Headings - "Exploring the Insect World," Wayne County Enrichment Academy, grades 5-8, March 3, 5, 10 & 12

Mark Headings - "Benefits Derived from Insects," keynote presentation at Ashland University, Enrichment Academy, August 14

Gene Malinowski - "Metrology and Precision Measurements," Kubota Service Technicians

Bob McMahon - Bedding Plant Workshop, CropKing, Inc., Seville, May

Jean Opliger - "Clarifying Team Roles and Responsibilities," "Conducting Information Exchange Meetings," and "Resolving Team Conflicts," Wayne Dalton Corp, Mt. Hope, OH

Royce Thornton - "The new DHI and accuracy of genetic evaluations". NOBA, Inc., Monroeville, February 27; Smithville, March 3; Fredricksburg, March 4; Alliance, February 5

Dan Voltz - Seminar on Trees and Shrubs for Ohio Gardens, Graf Growers, Akron, February

## 2. Workforce Development

**Seaman Corporation** - This partnership was originally funded by OBR as part of their Productivity Challenge program. In 1997, this partnership received the Governor's Workforce Excellence Award as a result of the workforce training activity. This prestigious award recognizes leadership and innovative workforce development efforts.

Several faculty taught courses at the company site:

E. Miller - "Practical Mathematics for the Workplace and You,"

J. Opliger - Taught several courses on leadership and teamwork:

- Maximizing Effective Leadership Series
- The Foundation for Leadership
- Successful Action Planning
- Goal Setting
- Understanding Teams
- How Teams Work
- Team Planning
- Fast Track Teams
- Dealing with People on the Job

J. Opliger and A. Zimmerman - Co-developed and taught a basic workshop on teams and problem solving. This workshop was offered 3 times with 24 participants.

J. Opliger and A. Zimmerman - Co-developed and taught an advanced workshop on teams and problem solving.

A. Zimmerman - Taught a credit course (Eng Tech T292) at the Seaman Corporation site for people interested in academic credit. There were 11 participants with six enrolled for credit.

**Case IH** - The Case Corporation is interested in developing a two-year management certificate (non-credit) program to be taught by distance learning methods to the key personnel of their North American dealers. Several prototype modules were developed and delivered to an "advisory committee" of Case dealers. Instruction is scheduled to begin in 1998. This Continuing Education activity has significant potential for impacting delivery of credit courses as well as non-credit courses. The faculty who were involved include L. Anderson-Schramm, J. Carr, F. Jennings, G. Malinowski, D. Munn, J. Opliger, and T. Zimmerman.



**Cleveland Advanced Manufacturing Program (CAMP)** - This partnership of Ohio State ATI, University of Akron-Wayne College, and CAMP was awarded a \$20,000 grant from OBR for developing the capacity to provide QS 9000 training. This partnership also received \$100,000 in Ohio Department of Development funding to enable small businesses in the automotive industry in Wayne and surrounding counties to take advantage of the QS 9000 training.

**New Holland** - A partnership was established with New Holland for corporate training for service technicians and sales persons from dealers in Ohio and surrounding states on the ATI campus.

**Industrial Automation Maintenance (IAM)** - This non-credit certificate program continues to provide skill training for local industry employees. Most of the courses in this program are taught by local experts in the industry and not regular faculty. Two faculty members who were involved in 1997 were G. Gordon, who conducted numerous sales/promotional activities and assisted with instructor recruitment, and J. Opliger, who taught the course: "Communicating on the Job" during Spring Quarter.

**Rexroth Mobile Hydraulics** - Several courses were taught for the employees of this company as part of a long-standing partnership with ATI.

E. Miller taught several TECHNICOMP (Technical Competence Through Training) Basic Dimensional Measurement Workshops:

- Basic Linear Instruments - 8 classes with 73 students
- Fixed Gages - 8 classes with 71 students
- Surface Plate Equipment and Methods - 8 classes with 64 students
- Dial Indicators - 8 classes with 68 students
- Pneumatic Gaging - 8 classes with 62 students
- Introduction to Engineering Drawings - 12 classes with 97 students
- Multiview Drawings - 12 classes with 106 students
- Sectional Views - 12 classes with 109 students
- Dimensions and Tolerances -
  - Part one - 12 classes with 103 students
  - Part two - 12 classes with 105 students
- Part Feature Specifications - 12 classes with 104 students

G. Gordon developed and taught a special in-plant course on valve assembly for production employees.

**Monsanto Dairy Business** - W. Greene and R. Thornton conducted a one-week workshop for Monsanto Dairy Production and Farm Management, Dec. 15-19, 6 participants.

**Fluid Power Society Education Institute (FPSEI)** - Ohio State ATI remains the only educational institution in the U.S. to offer and host FPSEI Instructor Training Workshops. One session was offered in 1997 involving 13 people from the U.S. and Canada. G. Gordon was the primary faculty member involved.

**Technology Update/Program Success Summit** - This special two-day event for high school agriculture educators involved several ATI faculty as well as industry representatives to help the participants keep their instruction relevant to industry's needs for new employees. This event was planned in conjunction with the Ohio Department of Education and the Ohio Vocational Agriculture Teachers Association. Among the ATI faculty participating were: G. Anderson, J. Carr, E. Copeland, W. Greene, T. Lanker, S. Lunsford, D. Willoughby, S. Woods, and T. Zimmerman.

**School-to-Work** - This special project was a partnership between ATI, Wooster City Schools and the Goodyear Rubber and Tire Company. G. Kreps taught thirteen sessions involving 111 teachers on the use of CQI in the classroom.

**Elderhostel Program** - This six-day session in the Summer provided participants the opportunity to study houseplant care, amish culture and music appreciation. The faculty involved included G. Kreps, B. McMahon and D. Stewart.

**Young Investigators/Upward Bound** - These two programs have been offered by ATI for several years with "camps" during the summer. Both programs are funded by federal agencies: Young Investigators by NSF and Upward Bound by USDE. The Young Investigator program involves junior high students and the Upward Bound involves high school students. Several faculty are involved including C. Opliger, J. Opliger, R. Borton, E. Copeland, S. Rahnema, and T. Zimmerman with Young investigators and L. Houston and G. Miller with Upward Bound.

**Other** - Additional outreach activities involved the following companies: Frito-Lay, Dover Hydraulics, FJ Designs, Wayne Dalton, AstroCosmos Metallurgical, Volvo, Rubbermaid, Smith Dairy, Orrco, and CNC Metals.

## **II. RESEARCH AND SCHOLARLY ACTIVITIES**

### **A. PUBLICATIONS**

#### **1. Books and Monographs**

Kreps, G., M. Kreps, J. Donnermeyer. A Quiet Moment in Time - A Contemporary View of Amish Society. Carlisle Press, 1997

Zimmerman, A. and E. Miller. Basic Applied Mathematics For Technology. Ohio State ATI, 1997.

#### **2. Edited Books**

Houston, L. Current Readings on Agricultural Topics. Curriculum Materials Service, Ohio State University, accepted for publication 1998

#### **3. Chapters in Edited Books**

Houston, L. "Budgeting and Politics: Keeping the Writing Center Alive," in Administrative Problem-Solving for Writing Programs and Writing Centers. Dr. Linda Myers, Editor. National Classroom Teachers of English, accepted for publication 1999

Lanker, T. Chapter 6: "Design Styles," A Centennial History of the American Florist. Florists' Review Enterprises, Inc., 1997

#### **4. Bulletins and Technical Reports**

Anderson, G.A. "Climbing Plants in Association with Herbaceous Borders," Buckeye, Vol. II, No. 4, September 1997



Anderson, G.A. "Enjoying the Seasonal Ambience of Evergreens," Green Times, Vol. II, No. 4, December 1997

Cochran, K. Finder's Guide to Deciduous Trees in OARDC's Secrest Arboretum

Cochran, K. Finder's Guide to Evergreen Trees in OARDC's Secrest Arboretum

Cochran, K., J. Chatfield, "Ohio Deciduous Tree Evaluation Project: A Proposal," Ornamental Plants Annual Reports and Research Reviews, "Special Circular 154, pp. 12-13

Draper, E., J. Chatfield, K. Cochran, P. Bristol and C. Tubesing, "Evaluation of Crabapples for Diseases at the Secrest Arboretum in Wooster, Ohio: 1996," Ornamental Plants Annual Reports and Research Reviews. Special Circular 154, pp. 35-40

Chatfield, J, E. Draper and K. Cochran, "Duration of Fruit Effectiveness and Blossom Longevity in Ornamental Crabapples at Secrest Arboretum in Wooster, Ohio: 1995-1996," Ornamental Plants Annual Reports and Research Reviews. Special Circular 154, pp. 41-48

Shetlar, D., J. Chatfield, E. Draper and K. Cochran, "Evaluation of Crabapples for Apple and Thorn Skeletonizer and Japanese Beetle Feeding Damage at Secrest Arboretum: 1996," Ornamental Plants Annual Reports and Research Reviews. Special Circular 154, pp. 49-52

Hammond, K. The 1997 Horticulture and Landscaping Educational Programs of the United States and Canada

McMahon, R. W. Media Mixes and More. Interior Landscape Journal

## **5. Peer-Reviewed Journal Articles**

Baur, R. and A. Zimmerman. "Readability of Feature Articles in Trade Publications," NACTA Journal. accepted for publication 1998

Houston, L. "Knowing Learning Styles Can Improve Self-confidence of Developmental Writers," Teaching English in the Two-Year College. Vol. 24. No. 3. October 1997

Irvin, K.M., G.A. Peterson, and S.M. Neal. "Response to selection for a sow productivity index in Duroc swine," 6<sup>th</sup> World Congress on Genetics Application to Livest. Prod. 26:116.

Kreps, G., M. Kreps, and J. Donnermeyer. "The Impact of Tourism on the Amish," Community Development Journal. October 1997

Neal, S.M., K.M. Irvin, and G.A. Peterson. "Correlated responses in litter preweaning traits to selection for a sow productivity in Duroc swine," 6<sup>th</sup> World Congress on Genetics Application, Livest. Prod. 26:123

Peterson, G.A., K.M. Irvin, S.M. Neal, and N.D. Stewart. "The effects of litter size, sex of pig and birth weights on growth patterns in Duroc, Landrace and crossbred swine," 6<sup>th</sup> World Congress on Genetics Application to Livest. Prod. 25:141.



Wimbush, K. "The effects of perphenazine and bromocriptine on follicular dynamics and endocrine profiles in anestrus pony mares", Theriogenology, 49(4): 717-733

Wimbush, K. "The tonic secretion of growth hormone in Quarter Horses and ponies differs in prepubertal Quarter Horses and ponies with respect to age but not breed", J. Equine Vet. Science

Zimmerman, A. "A Capstone Problem Solving Course Revisited." NACTA Journal, 42(3):41-47

## **6. Editor-Reviewed Journal Articles**

Anderson, G.A. "Herbaceous Plants in the Winter Landscape," Perennial Plants, Vol. 5, No. 1, Winter 1997

Headings, M. E. "Controlling Honey Bee Temperament," Bee Culture, Vol. 125, No. 5

Lanker, T. "A Century of Corsages," Florists' Review, September 1997

Lanker, T. "Bright, Kistler, and Benz: A trio of leading industry educators profoundly influenced the American Style of Floral Design," Florists' Review, September 1997

Niklas, R. J. "Financial Management: A Key to Success," Youngstown Area Grocers Association Bulletin. August 1, 1997

Niklas, R. J. "Pricing Policies and Strategy," Youngstown Area Grocers Association Bulletin. September 26, 1997

Niklas, R. J. "Marketing Research: A Key to Success," Youngstown Area Grocers Association Bulletin October 10, 1997

Willoughby, D. A. "Rotary Tillers," Grounds Maintenance, March 1997

Willoughby, D. A. "What's New: Portable Generators," Grounds Maintenance. October 1997

## **7. Reviews and Abstracts**

Borton, R.J. and J. Pfister. "Associate of Science Degree Program offered at ATI to facilitate Transfer to College B.S. Programs," Creating an Environment for Excellence, Joint College Conference, May 28-29, 1997

Borger, M.L. and W.A. Greene. "Characteristics and costs associated with estrus detection methods for beef cows," Journal of Animal Sci. 75 (Suppl. 1):236

Headings, M. E. "Facility and Program Planning for Distance Education Delivery," NACTA Journal. Vol. 41, No. 2, pp. 18

Houston, L. "Learning Disabilities and Self-Esteem: Specialist/ Teacher Collaboration" The OADE Newsletter, Vol. 3, No. 3, 1997

Jennings, F. L. "Strategies to Increase Research Publication Success," The NACTA Journal. June 1997



Rahnema, S., M.A. Barricklow, R. H. Ellis, and T. Meek. "Potato chip scraps as a source of energy in the diet of nursery pigs," Journal of Animal Sci. 75 (Suppl. 1):58

Wimbush, K. "The efficacy of fluphenazine as a treatment for fescue toxicosis in gravid pony mares", Proceedings of the 15th Equine Nutrition and Physiology Symposium, Ft. Worth, TX, p. 281

## **8. Papers in Proceedings**

Carr, J. and D. Munn. "Alternative Disposal Methods Of Construction Site Gypsum Wallboard Waste," The Proceedings of the Associated Schools of Construction Annual Meeting, April 1997

Carr, J. "The Proceedings of the Great Lakes Region Annual Meeting," The Proceedings of the Associated Schools of Construction Annual Meeting, November 1997

## **9. Editorships and Reviewers**

Carr, J. Reviewer, papers for The Proceedings of the Annual Meeting of the Associated Schools of Construction

Dobec, R. Member, Advisory Board, The Equine Athlete

Gordon, G. Reviewer, Transactions of the ASAE

Houston, L. Editor, Ohio Association of Two-Year Colleges Journal

Houston, L. Referee, Teaching English in the Two-Year College Journal

Houston, L. Reviewer, Proposals for 1998 Conference on College Composition and Communication

Houston, L. Reviewer, Proposals for 1997 Ohio Association for Developmental Education Conference

Lanker, T. Reviewer, Flower Marketing (working title), Ken Royer

Lanker, T. Reviewer, Floral Design Terms and Techniques (working title), AIFD Education Committee

Lunsford, S. Member and reader, Editorial Board, OATYC Journal

Malinowski, G. Member, Editorial Advisory Board, OEM/Off-Highway; Reviewer, Proceedings of the Society of Automotive Engineers

Mokma, A.L. Member and reader, Editorial Board, OATYC Journal

Munn, D.L. Reviewer, textbook Soil Microbiology for Delmar Publishers

Opliger, J. Member, Editorial Board, The Journal of Teaching and Learning

Schramm, L. Reviewer, Papers for Marketing Management Association 1997 Conference Proceedings, March 1997

Zimmerman, T.L. Reviewer, Soil Science Society of American Journal



## B. PRESENTATIONS

- Anderson, G. A. "Heirloom Roses," Great Lakes Chapter of the American Herb Society Symposium, Columbus, July 15
- Borger, M.L. and W.A. Greene, Characteristics and costs associated with estrus detection methods for beef cows. American Society of Animal Science Annual Meeting, Nashville, TN: July 29-Aug. 1
- Borton, R., M. L. Borger and S. Neal. "Relationship of Live Real-Time Ultrasound, Lean-Meater® and Carcass Fat-O-Meater Evaluation of Slaughter Hogs"
- Carr, J. "Web Pages Made Simple," Creating an Environment for Excellence-Joint College Conference, May 28-29; also, Ohio Association of Two Year Colleges Conference, Piqua, October 25
- Carr, J. "Using Digital Images in Construction Education," Associated Schools of Construction Annual Meeting, Seattle, WA, April
- Carr, J. "The Internet for Librarians," Association of Library Assistants of Ohio, Wooster, May
- Cochran, K. "Many Merits of Malus," 68th Annual Ohio State Nursery Short Course, Columbus, January 20-22
- Cochran, K. "Evaluation of Ornamental Plants in OARDC's Secret Arboretum," Professional Grounds Management Society, Wooster, June 10
- Cochran, K. "The Marketing Potential of Ginkgo biloba in the United States," Zaproszenie, a Ginkgo Symposium, Poznan Agricultural University, Poznan, Poland, September 25-26
- Cochran, K. "Greening of Poland's Nursery Industry," 47th Annual Meeting of the International Plant Propagators' Society, Eastern Region, Newport, RI, October 20-23
- Fulton, M. "How to Have a Better Lawn This Year," Orrville Exchange Club, Orrville, May 8
- Fulton, M. "Weeds of the Landscape," Wayne County Nature Club, September 25
- Headings, M. E. "Ant Foraging on Cowwheat, *Melampyrum lineare*, Desr." Entomological Society of America, Nashville, TN, December 16
- Headings, M. E. "Facility and Program Planning for Distance Education Delivery," NACTA Conference, Ames, IA, June 24
- Houston, L. "Teaching First-Year Composition: Just Doing It," Conference on College Composition and Communication, Phoenix, AZ, March 15
- Houston, L. "Everything You Didn't Learn in Graduate School: Teaching First-Year Composition," Conference on College Composition and Communication, Phoenix, AZ, March 15
- Houston, L. "Expanding the Boundaries of Technical Education: Total Quality Management-Student Centered Learning in a Technical Writing Classroom," American Technical Education Association Regional Conference, Memphis, TN, October 31

Houston, L. "Student-Centered Learning: E-mail, Graphics, Internet and Teams in a Technical Writing Course," Annual Conference of Ohio Association of Two-Year Colleges, Piqua, October 24

Houston, L. and S. Lunsford. "Reading and Writing Portfolios: Tools for Continuous Improvement," Ohio Association for Developmental Education, Toledo, November 6

Jennings, F. L. "Strategies to Increase Research Publication Success," NACTA Conference, Ames, IA, June

Lanker, T. "Christmas Wreathes," Christian Women's Fellowship, Wooster, December 11

Lunsford, S. "Discovering Resources in Cyberspace: Incorporating Them into Students' Writing," Ohio Council of the International Reading Association Conference, Dublin, October 25

McMahon, B. "Calculating Greenhouse Costs," Greater Cleveland Flower Growers Association, Cleveland, November

McMahon, B. "Down Under," Ohio Florists' Association Ohio International Floral Short Course, Cincinnati, July

Opliger, J. and G. Malinowski. "Moving Toward Excellence: Quality Improvement as a Way of Doing Business," Creating an Environment for Excellence - Joint College Conference, Columbus, May 28

Opliger, J. "Foundation Skills," Wayne County Human Resource Association Annual Meeting, Wooster, May 21

Willoughby, D. A. "Reel Mowing versus Rotary Mowing," Wooster Garden Festival, Wooster, July

Willoughby, D. A. "Fertilization of Turfgrass," Wooster Garden Festival, Wooster, July

Zimmerman, A. "Teamwork and Problem Solving in the Workplace." NABEC-ASAE Conference, University of Maryland, July

### III. SERVICE

#### A. PROFESSIONAL SERVICE

##### 1. Professional Associations (offices, boards, etc.)

J. Carr - National Association of Homebuilders (Board of Directors, Student Chapters Faculty Advisory Board Chair, Construction Management Marathon Committee Chair); Buckeye Rural Builders Association (secretary-treasurer)

M. Headings - Entomological Society of America (Co-moderator, Subsection C<sub>D</sub> on Behavior and Ecology, Annual Conference)

L. Houston - Two-Year College English Association (Task Force to plan first national conference); Ohio Association for Developmental Education (Executive Board, Co-Chair for Political Affairs Committee)



F. Jennings - National Association of Colleges and Teachers of Agriculture (International Committee)

G. Kreps - American Sociology Society (coordinate two projects)

S. Lunsford - Ohio Council of International Reading Association (Board of Directors, Field Representative, Chair, Integrating Reading and Writing Committee, and Chair, Adult Literacy Committee); Wayne County Council of the International Reading Association (Secretary)

G. Malinowski - Engine and Equipment Training Council (Board of Standards)

E. Miller - The Ohio Mathematics Association of Two-Year Colleges (Advisory Committee and History Committee); The American Mathematics Association of Two-Year Colleges (Developmental Mathematics Committee); Ohio Association of Developmental Education (Developmental Math SIG Group)

D. Munn - American Society of Agronomy (Student Speech Contest)

S. Neal - American Society of Animal Science; American Registry of Professional Animal Scientists (American College of Animal Genetics Board of Directors - genetics certification board); National Research Initiative Competitive Grants Program Enhancing Reproductive Efficiency (Proposal reviewer for USDA Reproductive Biology of Animals Program)

J. Opliger - National Association for Developmental Education (Workplace Learning Special Interest Group Chair)

A. Zimmerman - American Society of Agricultural Engineers (P-205 Engineering Technology and Management Education Committee, Nomination Committee Chair - Ohio Section, NABEC Program Committee); National Association of Colleges and Teachers of Agriculture (Publications Committee); American Technical Education Association (Editorial Committee)

T. Zimmerman - American Society of Agricultural Engineers (SW-23 Drainage Group Chair, SW-02 Steering Committee, SW-04 Program Committee, SW-232 Water Table Management in Humid Regions, SW-245 Turf & Landscape Irrigation, and INT-611 International Affairs)

## **2. Trade Associations (offices, boards, etc.)**

G. Anderson - Ohio Association of Garden Clubs (State Board, Counselor to President); Ohio Florists' Association (Retail Short Course Committee and Decorations Committee); Ohio FFA (conducted State Floriculture Contest); National Junior Horticultural Association (National Career Chairman); ATI Tech Prep Consortium (Steering Committee)

M. Borger - Wayne County Cattlemans' Association (President); Northeast Ohio Angus Association (Board of Directors); American Corriedale Association (performance records committee)

K. Hammond - Ohio Nursery Landscaper Association (Vice Chair, State Certification Committee and member Student/Scholarship Committee); Associated Landscape Contractors of America (Accreditation/Curriculum and Student Career Day Committees, National Landscape Technician Council)

T. Lanker - Redbook Florists Services/Teleflora (Educational Design Team); Ohio Florists' Association (Retail Short Course Planning Committee, Decorations Committee, Retail Extension Committee); American Institute of Floral Designers (Student Chapter Advisor)

S. Neal - Ohio Pork Improvement Association (Board of Directors)

R. Niklas - Ohio Food Industry Educational Foundation (Board of Directors)

R. Thornton - Ohio Dairy Farmers Federation (Milk Check-off Committee); Ohio Holstein Association (delegate to state convention); Spring Dairy Expo (organizing committee)

### **3. Discipline Related Service to the Community**

G. Anderson - Wooster Garden Festival (Steering Committee); Wooster Garden Study Club (President); Conducted tours of the OARDC Rose Garden; Conducted several Flower Arranging Programs and Landscape/Gardening Programs; Provided plants and/or floral decorations for the numerous events

R. Borton - Wayne County Junior Fair (official livestock skills contests); Holmes County Fair (Lamb Carcass Show Judge)

K. Cochran - Prepared numerous plant exhibits; Conducted several plant walks; Plant Discovery Day program; Conducted plant propagation workshops; several presentations to garden clubs;

G. Gordon - Ohio Tech Prep (State Competition Judge)

W. Greene - Wayne County Dairy Promoters (assisted at the Wayne County Fair); Wayne County 4-H (Advisor)

K. Hammond - Wooster Shade Tree Commission (Vice Chair)

M. Headings - Wayne United Chaplain Ministries (Moderator, Governing Board)

T. Lanker - Ohio FFA (State Floriculture Contest)

S. Lunsford - Buckeye Book Fair (Checkout cashier); Beacon House (volunteer)

G. Malinowski - OEM/Off-Highway magazine (Review committee for new product introductions); Ohio FFA (State Agricultural Mechanics Skills and State Small Engine Contests); Tech-Prep Showcase Contest (Judge)

R. McMahon - OARDC and Ohio State ATI Speakers Bureau (made presentations to community groups); Ohio FFA (State Floriculture Contest); several county fairs (Judge); donated potted plants for various functions; conducted public tours of the greenhouse

D. Munn - Triway Junior High Science Fair (Judge); Mohican District Science Day (Judge)

S. Neal - Loudonville Street Fair (Evaluator, Live Hog Sonoray carcass contest)



J. Opliger - Mohican District Science Day (Judge); Governor's Excellence Award (review team); Ohio Board of Regents (Workplace Team)

S. Rahnema - Tech Prep Environmental program (curriculum development committee); Mohican District Science Day (Judge)

R. Rupp - State Science Day (Judge)

R. Thornton - Ohio Spring Dairy Expo (Judge, Outstanding Junior Exhibitor Memorial Award and Scholarship)

S. Woods - several county fairs (Judge)

A. Zimmerman - Home Energy Ratings, Ohio Foundation (Board of Trustees); Affordable Comfort, Inc. (Academic Outreach Task Force, Program Advisory Committee for 1998 Conference); Mohican District Science Day (Judge)

T. Zimmerman - Wayne County (Chair, committee studying feasibility of GIS system); Triway Junior High Science Fair (Judge)

## **B. ACADEMIC SERVICE**

### **1. College**

G. Anderson - FAES College Promotion and Tenure Committee  
Vice President's Advisory Council  
FAES Development Office Campaign Dinner Committee

R. Borton - College Animal Care Committee

M. Fulton - Focus group for enVision

M. Headings - Agriculture Faculty Council  
International Programming Team  
Internationalizing Curriculum (Chair)  
Phi Beta Delta - Alpha Epsilon

G. Kreps - CQI Team Committee

E. Miller - The Academy of Teaching

J. Opliger - CQI Team Committee  
CQI Resource Team

R. Thornton - Blue Ribbon Panel on College Facilities and Land Use  
(review committee to prepare response proposal)  
OSU Dairy Team  
OSU Dairy Restructuring Team

A. Zimmerman - Project Reinvent (Structure Committee)

### C. CONSULTATIONS

G. Anderson - Public and extension agents regarding a diversity of horticultural topics

J. Carr - Senco Products, Inc. Cincinnati conduct a survey on the use of pneumatic fasteners

K. Cochran - Robert Williams, Carl Bernhard, Floyd Henderson and Hugh Durbin about developing crabapple plants for the Johnny Appleseed Foundation; Dr. Lynn Lovelace, College of Wooster, Biology Department, with seed germination provenance study; Janet Marinelli and staff of Brooklyn Botanical Garden, New York, to explore possibilities for a publication on crabapples; Roy Ring on a gypsy moth study; Dan Herms on a phenology study; Manbeck Nurseries, New Knoxville; Berryhill Nurseries, Springfield; Holly Ridge Nursery, North Ridgeville; Nettle Creek Nursery, Urbana; Poruban Nursery, Avon; Losley's Nursery, Parry; East of Eden Nursery, Chagrin Falls; Lake County Nursery, Perry; and Dow Gardens, Midland, MI regarding plant materials; Assisted Impulseti Landscaping with their indoor display garden for Floralscape; Lake Miller, Garden Gate magazine concerning writings for publication; Assisted Hunter's Chase Condominiums, Chuck Mauer; Secrest Farms, Russ Cole; and Portage Road Condominium, Tom Wonderling with tree planting recommendations; Training on *Taxus* production for Hauser Chemical, Boulder, CO

R. Dobec - Standardbred and Thoroughbred owners, breeders and trainers on a variety of horse problems

G. Gordon - Fluid Power Society (consult with the Indian Institute for Production Management to arrange for fluid power training in India); Mid-East Ohio Vocational Center on expansion of hydraulics curriculum; FPDA CBT and OPE on video projects

W. Greene - Numerous farmers regarding a variety of dairy problems

K. Hammond - Answer numerous phone questions from private home owners, company owners, company employees, and extension service personnel; a two-year school in Memphis, TN to start a landscape contracting program

M. Headings - Responded to requests for information from the general public concerning pest problems and their control

L. Houston - DeVry Institute of Technology, Columbus; Houghton Mifflin Faculty Development Workshops; North Central Technical College on syllabus development; Heinle and Heinle Publishing on developmental writing ideas; Luk on oral presentations

G. Kreps - Wayne and Holmes County Chambers of Commerce concerning impact of tourism on the Amish

T. Lanker - Publisher of A Centennial History of the American Florist during the organizational stages of the book and throughout the compilation of chapters; Ohio Florists' Association for planning the International Floriculture Industry Short Course retail design programs

R. McMahon - CropKing, Inc. on crops to grow for bedding plant workshops; several phone inquiries from greenhouse businesses regarding various floriculture production problems and from the public regarding houseplant and garden questions



S. Neal - Cuyahoga Community College on use of the ATI farm laboratory for CCC introductory animal science course as a part of their Veterinary Assistant program; Wayne County Swine Committee (county program development)

R. Niklas - National Grocers Association Mid-Winter Retail Operations Conference and Trade Show (National Best Bagger Contest judge), Houston, TX; Ohio Grocers Association Annual Convention and Trade Show, Columbus (best bagger contest official/judge); Cleveland Food Dealer's Annual Awards Banquet (presented the Alvin J. Palack 1997 Scholarship Award)

J. Opliger - Ann Hale, Ashland University's seminar on Leadership and Empowerment

S. Rahnema - Marge Stock on modification and improvement of the culture tanks and facilities for salmon production to directly benefit the Amish people; Mr. Ted Stults, Mr. James White, Mr. John Menches, and Mr. George Falb at Buckeye Feed regarding feed analysis and fish food manufacturing; Dave Beam of Clinton County, Ron Holtman, Don Rettinger of Crop King, Elain Seneca, and Mr. Sprague regarding fish production

R. Rupp - Advised junior high student on development of Science Fair Project involving microscope photography

L. Schramm - Empire Tractor, Geneseo, IL on needs assessment for dealership training;

R. Thornton - Phone calls and visits to the office are made by farmers seeking assistance; significant work has been done with Cormac Irwin (alumnus) as he formed a dairy corporation

S. Woods - Woods Seed Farms, Britton, MI regarding White mold in beans and low soil pH; Dan Frye, (alumnus) cash crop questions

D. Voltz - City of St. Clairsville and Shady Hollow Country Club in Massillon; Helena Chemical Company

D. Willoughby - IMC Vigoro, Winter Haven, FL for the R&D Department and the Marketing Research Department; Advanced Irrigation for electronics, irrigation and communication; Shady Hollow Country Club, Massillon; North Canton Athletic Fields, North Canton on turfgrass development and athletic field construction; Teter Golf Development Group, Delaware on professional golf course design and construction; numerous calls from industry professionals and private homeowners dealing with turfgrass-related problems

A. Zimmerman - HERO Foundation for technical assistance; guest editorial "Controlled Ventilation, Tight Houses, and Building Material Retailers," Building Material Retailer

T. Zimmerman - several clients seeking assistance with soils identification and limitations for the purpose of on-site sewage systems

#### **IV. GRANTS AND CONTRACTS**

##### **A. COMPETITIVE GRANTS**

B. Aylsworth - Tech Prep grant of \$150,000 to continue previous activity with horticulture, expand into environmental technologies, and add an equity component to improve high school-to-tech college articulation

J. Carr - MICROSOFT grant of over \$50,000 worth of software (25 copies of Windows 95, Microsoft Office, and Microsoft Project) for use in Construction Technology courses

W. Greene - Received approximately \$700 from Select Sires for the study of GnRH and PGF<sub>2α</sub>

G. Knowlton - Student Support Services grant from USDE to continue Program EXCEL at ATI for the next four years, approximately \$190,000 per year

G. Kreps - School-to-Work Competitive Training Grants for CQI training with Wooster City Schools, \$88,000 for October 1996-June 1997; \$78,000 for June-December 1997

R. McMahon - Fred C. Gloeckner Foundation, Inc. "Reducing Fungus Gnat Damage with Coir," \$9300, with Dr. Richard Lindquist

T. Zimmerman - Ohio EPA grant for study of constructed wetlands, \$17,000 for a 3-year period beginning 1995

##### **B. GIFT ACTIVITY**

K. Cochran - Obtained approximately \$5600 of plant material donations for the Secrest Arboretum's Plant Discovery Day

G. Gordon - Obtained \$6,550 for scholarships for fluid power students and \$24,000 for fluid power program support

S. Rahnema - Originally (1994) received \$41,000.00 for a facility and equipment for intensive indoor trout, salmon and perch production, has been ongoing for three years; Funds for the operation of this project were received from a private donor

D. Willoughby - Received over \$37,000 of donated equipment and materials for instructional and technical education purposes

#### **V. INTERNATIONAL ACTIVITIES**

G. Anderson, K. Cochran, R. McMahon - Hosted Karol Pawlak for one week as he visited northeastern Ohio to study the ornamental horticulture industry.

K. Cochran - Visited Poland in late September to study the ornamental horticulture industry of Poland; made presentation "The Marketing Potential of Ginkgo biloba in the United States," at the Poznan Agricultural University



## VI. AWARDS AND HONORS

Richard Dobec:

Who's Who Among College Professors

Wesley Greene

ATI Distinguished Teaching Award

Kent Hammond

Who's Who Among America's Teachers

Robert McMahon

College's Excellence in Teaching Award

Robert McMahon and Jean Opliger

National Institute for Staff and Organizational Development  
Excellence Award for teaching

David Willoughby

ATI's Outstanding Faculty Advising Award  
College's Excellent Advisor Award

Allen Zimmerman

The Everly Journal Award, NACTA Journal

Greenhouse Production and Management Technology

Received letter of commendation from Mr. John F. Greenslit, Chief  
Executive Officer, Professional Plant Growers Association for  
recognition as one of top twelve programs in floriculture education

The ATI-Seaman Corporation partnership

Received the Governor's Workforce Excellence Award for leadership and  
innovative workforce development activity

The Ohio State University



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